

COMPUTER AIDED DESIGN AND DRAFTING - PRODUCT DESCRIPTION

DataCAD2 is a powerful two-dimensional Computer Aided Design and Drafting system which runs in full color and at several screen resolutions. MICROTECTURE brings many of the advantages of mainframe CAD systems to the micro-computer user. The system is designed specifically for Architects and Engineers and uses a number of time saving features that make drawing production fast and precise and allow drawings to be modified easily.

Like other MICROTECTURE software, DataCAD2 is easy to use, with on-screen documentation and status information which provides a rapid learning curve and accelerated system payback. DataCAD2 represents a new generation of advanced, low cost computer aided design offering expanded capability for the production of design, development, and construction drawings. DataCAD2 provides an impressive array of advanced drafting features not available on any other small CAD system.

ELECTRONIC DRAFTING

Computer aided design software allows you to take advantage of the many time saving capabilities that a computer can provide. Like a text editor for drawings, the DataCAD2 program allows complex drawings to be created by using drawing commands to create lines, circles, arcs and freeform shapes. Patterns and details may be moved, rotated or copied to create larger drawings in less time than with manual methods. Changes, modifications, and additions to construction drawings are easy and fast.

EASE OF USE

Emphasis has been placed on a simple and understandable command structure so that even designers with no previous computer experience can learn to use the system quickly. The menu driven system allows you to select commands from the screen by pointing to them with the mouse or by using the function keys. Each sub-menu displays a new set of function keys relating to the command selected. In addition, a large number of global commands are available directly from the keyboard. These keyboard commands are interrupt driven, allowing you to combine the advantages of both the hierarchical and command driven menu formats.

SCALE AND ZOOM

Because you are trained to use specific architectural and engineering scales when you draw, DataCAD2 uses discrete scales when zooming up or down on the drawing surface. A shape displayed on the monitor is represented at its actual size according to the scale selected. The monitor also displays information about the current status of the program. Drawing scale, drawing layer and name, and current menu option selected are constantly displayed for your reference.

MULTIPLE LAYERS, COLORS, & LINETYPES

Following the analogy of overlay drafting, a drawing may be organized as a series of transparent layers. As many as 1024 different drawing layers may be stored within a single drawing file. Each layer may be given its own name and grid size and may be selectivly turned on or off to display the desired collection of information for the particular type of editing being done. Optional color capability can be used to distinguish line types and levels during the design process. Individual layers may be saved separately on disk, or merged with other drawings.

FLEXIBLE GRIDS

DataCAD2 makes extensive use of grids and offers many grid options including rotated grids. Since each drawing layer can have its own grid settings, the size and offset of each layer can be set to the optimal value for the type of information being stored within that layer.

TEMPLATE LIBRARIES - ON-SCREEN TEMPLATES

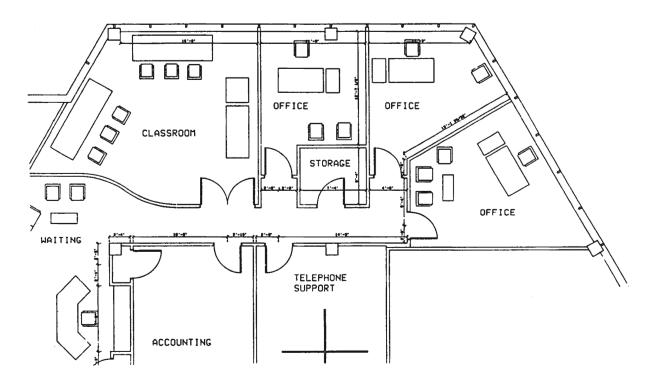
The template function allows the designer to make efficient use of previously designed shapes, details, and drafting symbols. Once an object or symbol has been drawn, it may be stored permanently in a template library and later recalled to the screen for use. Groups of symbols may be collected in customized libraries containing standard symbol sets, typical office details, furniture, or electrical fixtures.

TEMPLATE DATABASING

The template system also provides a powerful databasing capability. Each template symbol may be assigned up to 16 database attributes such as size, description, price, etc. These may be used in combination with a spread-sheet form definition to create drawing schedules, inventories, cost estimates, or a variety of other report formats you can create yourself. These capabilities advance the utility of the small CAD system as an organizer for project specifications, cost control and management, as well as a tool for design and drafting.

PLOTTED DRAWINGS

A variety of plotters are supported, including Houston Instruments models. Vellum or mylar may be used for presentation quality plots in ink, with sheet sizes of up to 36 inches in width on the larger plotters. Different colors and line widths may be used in any layer, and partial plots may be defined for hard-copy detail libraries or progress prints.



INTEGRATED TO PROJECT COSTING

For users of MICROTECTURE'S project costing module, DataCAD2 provides integrated and automated posting of time spent on the CAD system. Employee name, project number, phase, and service information are maintained with each drawing file. This information may be posted to the project costing module and becomes available to any of the reporting capabilities within the Financial Management System.

THE COMPLETE SYSTEM

Template libraries, user-definable line types, hatching, architectural features, auto-dimensioning, template databasing, and a project costing interface are just a few of the advanced features which make DataCAD2 the most powerful design and drafting software available to micro-computer users.

AUTOMATIC DIMENSIONING

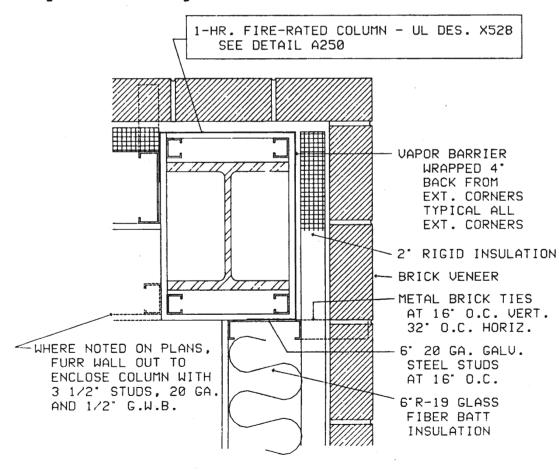
The automatic dimensioning capability can be used to run string lines in architectural, engineering, or metric units. Four types of termination marks may be selected to suit the application.

ARCHITECTURAL FEATURES

A number of special features designed for architects and engineers are provided for speed and efficiency:

- * Automatic wall command (with intersection trim).
- * Automatic window insertion
- * Automatic door insertion
- * Area and perimeter calculations

These capabilities, together with user definable line types, cross hatching, fillets, and variable line types allow rapid and accurate layout of drawings and details.



COLUMN DETAIL

GENERAL INFORMATION		DRAWING CREATION		CURVE HANDLING	
Release Date	1/1/85	Format	FP Reals	Fillets	Yes
Price	\$ 2,495.00	Dynamic Tracking	No	Tangents	Yes
Current Release Version	1.2b	Mirror Imaging Directions	On Screen	Radius Circle	Yes
lext Release	6/1/85	Create Rectangle and Ellipse	Both	Diameter Circle	Yes
larranty	30 days	Orthogonal Mode	Yes	2 Pt. Circle	Yes
pdates for 1 Year	No Charge	Display Object Attributes	Yes	3 Pt. Circle	Yes
Ipdates, Annual Fee	\$ 450.00	CrossHatch Patterns Provided	55 Types	2 Pt. Arc	Yes
,		User Definable Hatch and Fill	Yes	3 Pt. Arc	Yes
ENDOR INFORMATION		Fill Polygon	No	Ellipses	Yes
echnical Support	Yes	Draw Parallel Lines	Yes	Ettipses	163
ase of Learning	Rated Best	Auto-Draw of Windows, Doors	Yes	DATABASING	
ase of Use	Rated Best	Standard Line Types	4 -	Template Library Provided	Yes
lanual	150 pages	User Definable Line Types	10		Unlimited
utorial	Sample Drawings	Arrowheads		Number of Template Libraries	Yes
emo Program on Disk	Yes	AT TORITEDUS	1 Type	Symbols Displayed On Screen	
ideotape	6/1/85	EDITING		Number of Symbols/Library	256
	-, -,			Number of Attributes/Symbol	16
n-Line Help Menus Toll Free Number	6/1/85	Editing Convenience	Rated Best	Characters Per Attribute	20
	6/1/85	Erase Object	Yes	Flexible Database Extraction	Yes
raining Program	Extra Charge	Erase Contents of Window	Yes	Arithmetic Operations	Yes
ewsletter	Yes	Save Part of Drawing	Yes	Text and Line Types in Symbols	Yes
opy Protected	No	Save Layer	Yes	On-Screen Selection of Symbols	Yes
Jse Protected Hardware	No	Search/Replace Symbols	No	User-Definable Template Forms	Yes
		Vertex Snap	Yes		
ARDWARE		Move Objects Between Layers	Yes		
ardware Sales	Yes	Copy Objects Between Layers	Yes	PLOTTING	
upports High Resolution Color	Yes	Scale Objects	Yes	Specify Size of Plot	Yes
onitors Supported	6	Scale X, Y Axes Independently	Yes	Specify Start Point of Paper	Yes
Intel 8087, 80287 Support	Yes	Stretch X, Y Independently	No	View Layout Before Plotting	Yes
		Scale Text Height and Width	Yes	Partial Plot	
ISPLAY		Text at Any Angle	Yes	Line	Yes
vailable Layers	1024	Erase Last Command	Yes	Shape	Yes
enu On-Screen	Yes	Undo Feature	Yes	Area	Yes
croll and Pan Icons On-Screen	Yes			Al Cu	100
imultaneous Colors	up to 256	DIMENSIONING		OTHER FEATURES	
ixed Colors On Any Layer	Yes	Automatically Dimensions Lines	Yes	* Interface to Project Costing	
isplay Line Type On-Screen	Yes	Diagonal Lines	Yes		6/1/85
an and Zoom	Yes	Architectural Units	Yes	* Three Dimensional CAD Software	6 0/1/05
ultiple Windows Saved	10	Decimal Units	res Yes	* Tab-To-Layer Command	
edraw Time	Fast			* IBM VDI Graphics Support	•
creen Drawing Area		Metric Units	Yes	* Automatic Wall Intersection Tr	'1M
	up to 58 sq. in.	Engineering Units	Yes		
spect Ratio Correction	Automatic	Termination Types Provided	4		
ubberbanding of Lines	Yes	Area/Perimeter Calculations	Yes		
ifferent X, Y Grid Spacings	Yes	Entries in Feet and Inches	Yes	ì	
rid in X, Y and Z axis	No	Change Units of Measure	Yes		
rid can be Rotated	Yes	Absolute Coordinates	Yes	NOTE:	
rid Origin Relocation	Yes	Relative Coordinates	Yes		
eperate Snap/Display Grid	Yes	Polar Coordinates	Yes	The ratings and comparisons listed on	
rids Associated With Layers	Yes	Dimensions at Any Angle	Yes	this chart are based on an independent	
oom and Scroll Interrupt	Yes			software evaluation.	
screte Scaling of Display	Yes			Section & Grandations	
xed Line-Types on Any Layer	Yes				